Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Matt King

GENERAL INFORMATION:		
Name:	TVA Paradise Fossil Plant	
Address:	13246 State Route 176, Drakesboro, KY 42337	
Date application received:	December 11, 1996	
SIC/Source description:	4911 Electric Services	
EIS #:	21-177-00006	
Application log number:	50068	
Permit number:	V-04-024	
remit number.	V 07 027	
APPLICATION TYPE/PERMIT ACTIVITY:		
[x] Initial issuance	[] General permit	
Permit modification	[]Conditional major	
Administrative	[x] Title V	
Minor	Synthetic minor	
Significant	[x] Operating	
Permit renewal	[] Construction/operating	
[] I climit tenewar	[] construction/operating	
COMPLIANCE SUMMARY:		
Source is out of compliance	[] Compliance schedule included	
[x] Compliance certification signed	f l I	
[]		
APPLICABLE REQUIREMENTS LIST:		
[] NSR [x] NS	SPS [x] SIP	
[] PSD [] NE	ESHAPS [] Other	
Netted out of PSD/NSR []	Not major modification per 401 KAR 51:017,	
	1(23)(b) or 51:052,1(14)(b)	
MISCELLANEOUS:		
[x] Acid rain source		
[] Source subject to 112(r)		
[] Source applied for federally enfo	rceable emissions cap	
[] Source provided terms for alterna	ative operating scenarios	
Source subject to a MACT stands		
Source requested case-by-case 1		
[] Application proposes new contro	(C)	
[x] Certified by responsible official	1 44 4 1111	
[x] Diagrams or drawings included		
[] Confidential business information (CBI) submitted in application		
[] Pollution Prevention Measures		
[] Area is non-attainment (list pollu	tains).	

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	3777/668	5267/1163
SO_2	84,100	119,523
NOx	47,099	61,925
СО	2083	2756
VOC	243	320
LEAD	0.7	0.9

SOURCE PROCESS DESCRIPTION:

Tennessee Valley Authority operates three coal fired electric generating boilers. All three are equipped with selective catalytic reduction for NOx control. Units 1 and 2 are equipped with venturi type flue gas desulfurization scrubbers, and one is under construction on Unit 3 to control particulate matter and SO2 emissions. The facility also includes coal handling equipment, limestone handling equipment, building heat boilers and heaters, and ash and gypsum disposal processes.